

JVC

SCHEMATIC DIAGRAMS

LCD FLAT TELEVISION

LT-23X475

CD-ROM No. SML200409



LT-23X475

STANDARD CIRCUIT DIAGRAMS

CONTENTS

USING P.W. BOARD	2-1
SEMICONDUCTOR	2-1
BLOCK DIAGRAM	2-2
CIRCUIT DIAGRAMS	2-3
MAIN PWB CIRCUIT DIAGRAM	2-3
IR SENSOR PWB CIRCUIT DIAGRAM	2-33
AV JACK PWB CIRCUIT DIAGRAM	2-35
FRONT CONTROL PWB CIRCUIT DIAGRAM	2-36
TUNER PWB CIRCUIT DIAGRAM	2-36
PATTERN DIAGRAMS	2-37
MAIN PWB PATTERN	2-37
IR SENEOR PWB PATTERN	2-39
AV JACK PWB PATTERN	2-39
FRONT CONTROL PWB PATTERN	2-39
TUNER PWB PATTERN	2-39

USING P.W. BOARD

MAIN P.W. BOARD	DA-5097631902 (PWB-0692-1)
IR SENSOR P.W. BOARD	DA-5097631902 (PWB-0692-2)
AV JACK P.W. BOARD	DA-5098800731 (PWB-0693-1)
FRONT CONTROL P.W. BOARD	DA-5098800732 (PWB-0693-2)
TUNER P.W. BOARD	DA-5098800733 (PWB-0693-3)

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW

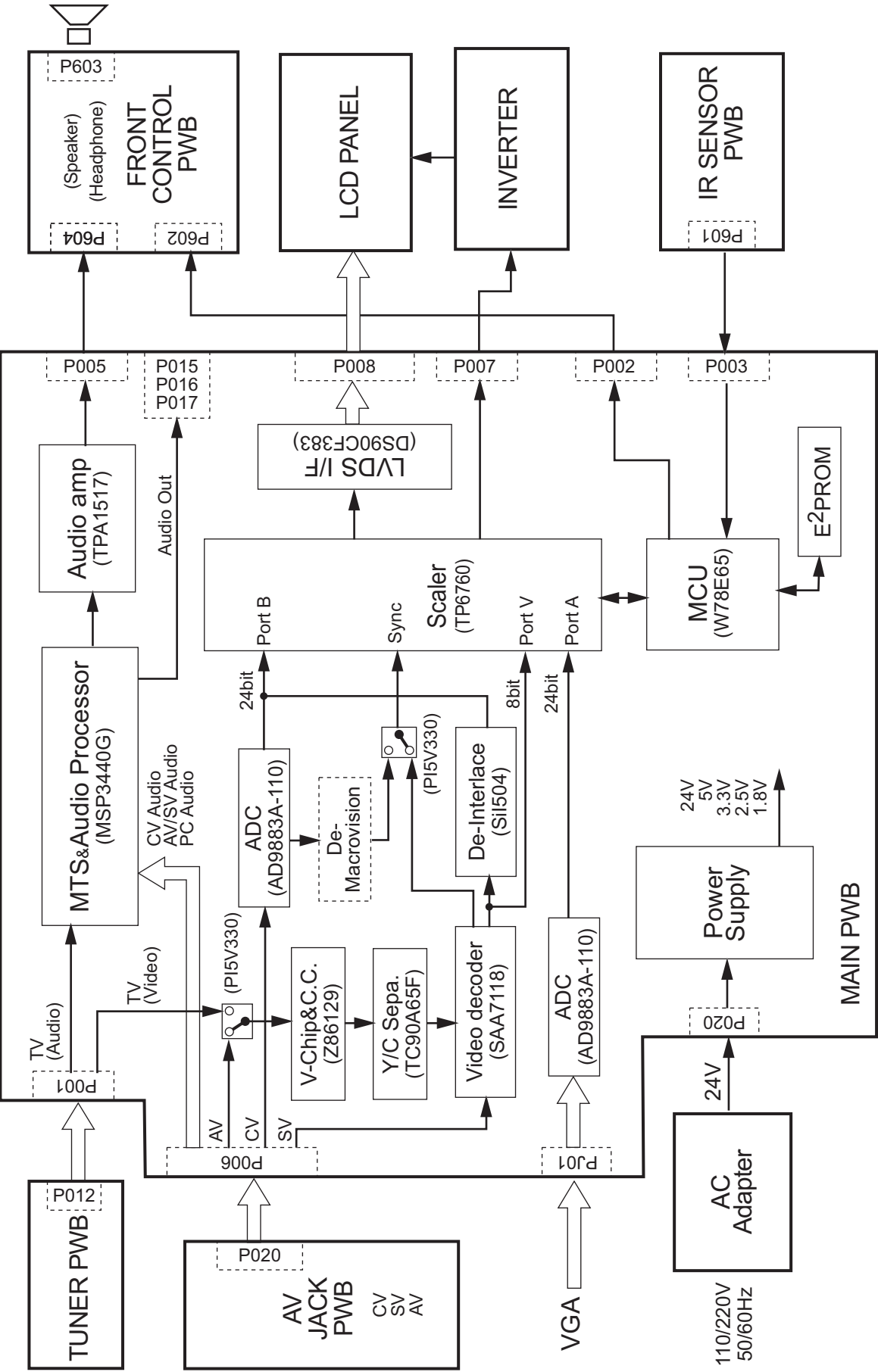
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

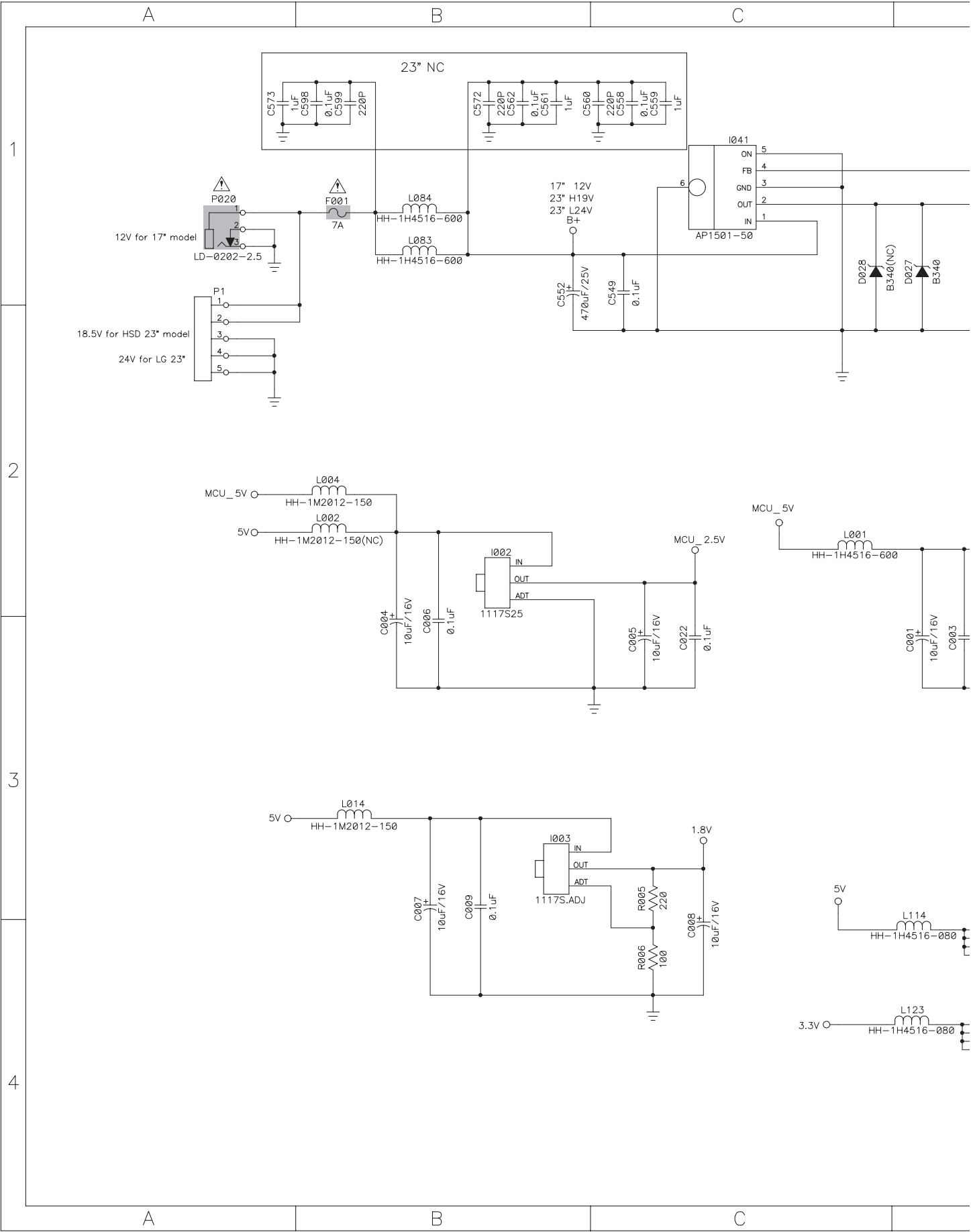
TOP VIEW	

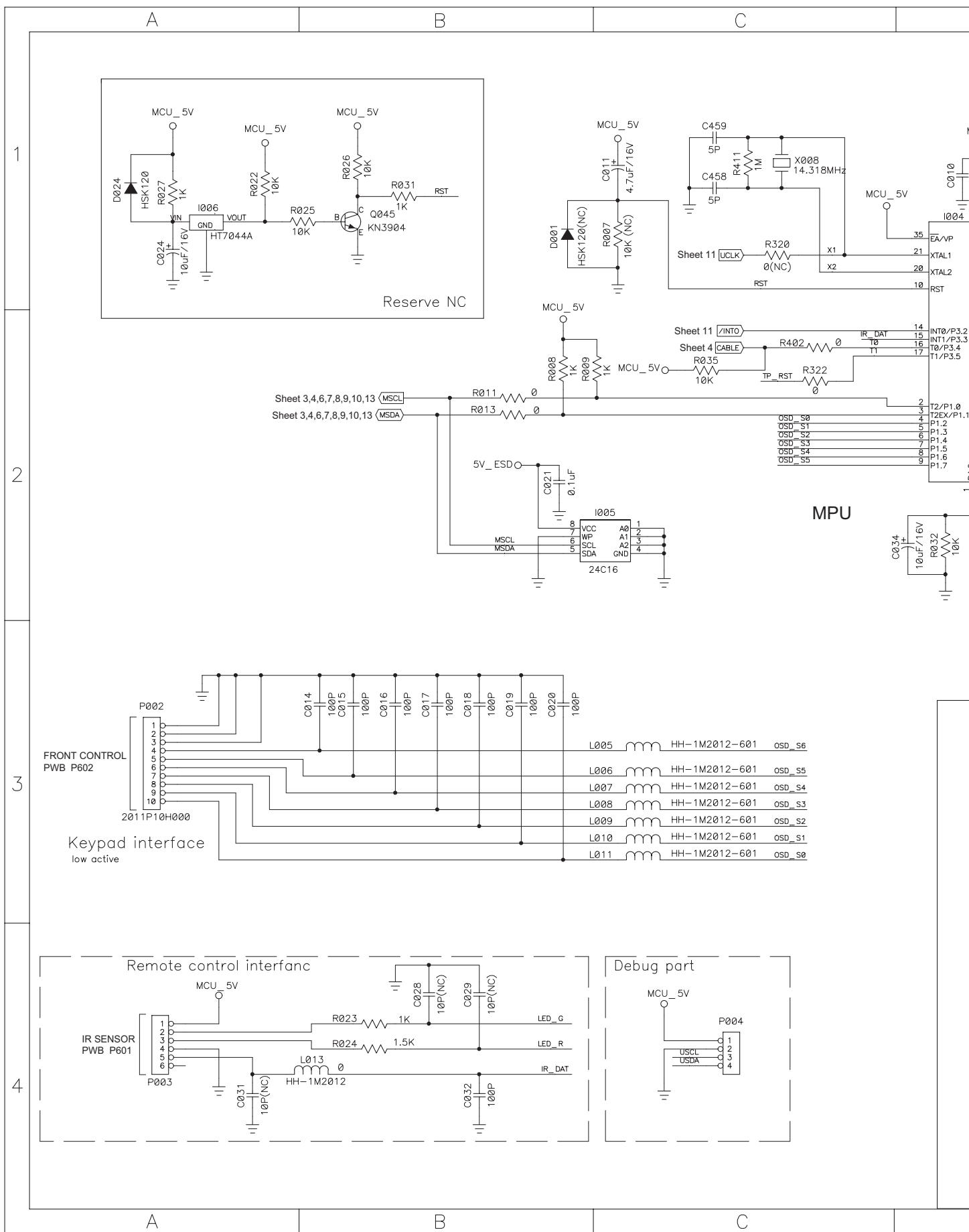
BLOCK DIAGRAM



CIRCUIT DIAGRAMS

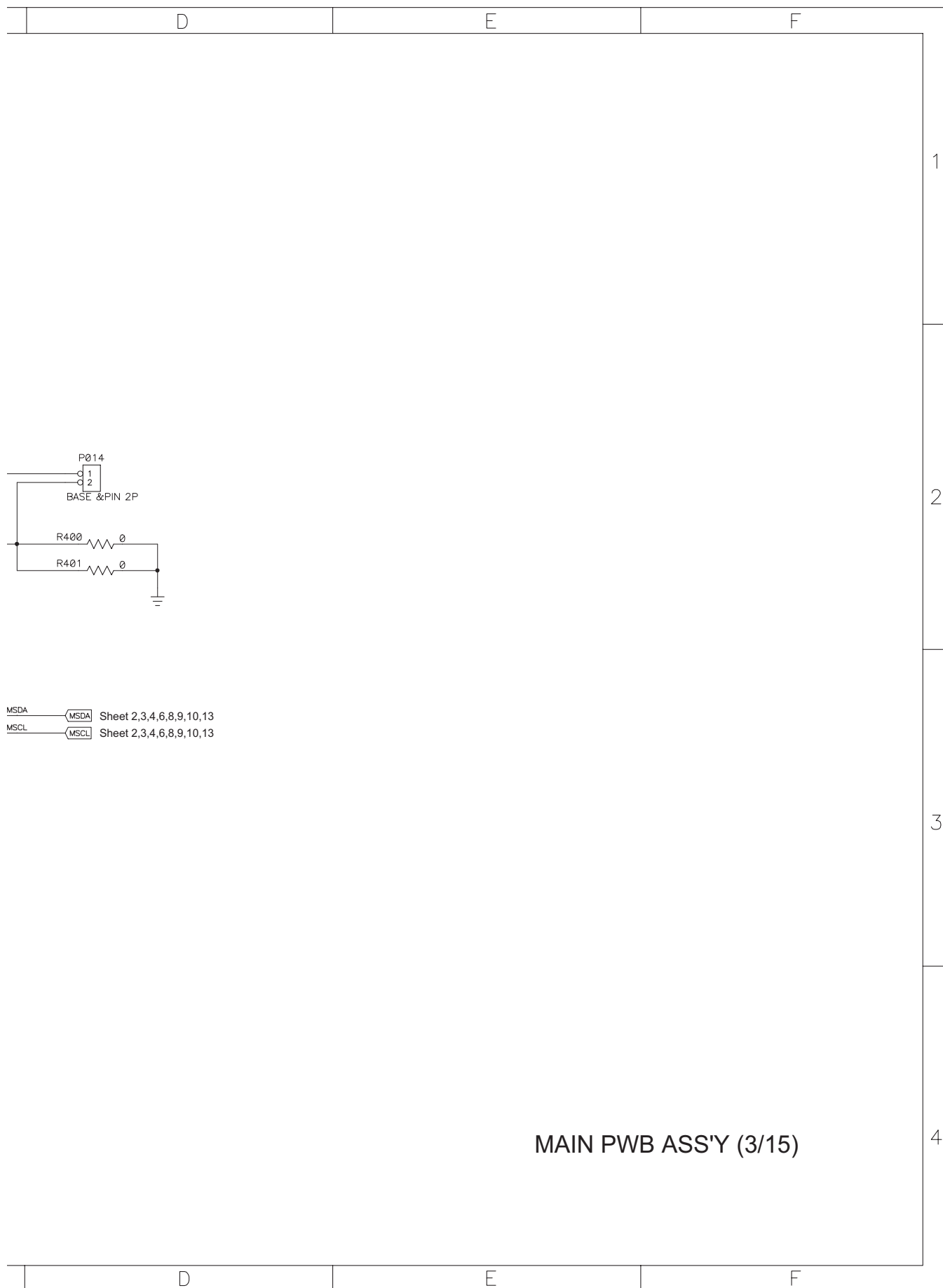
MAIN PWB CIRCUIT DIAGRAM (1/15)

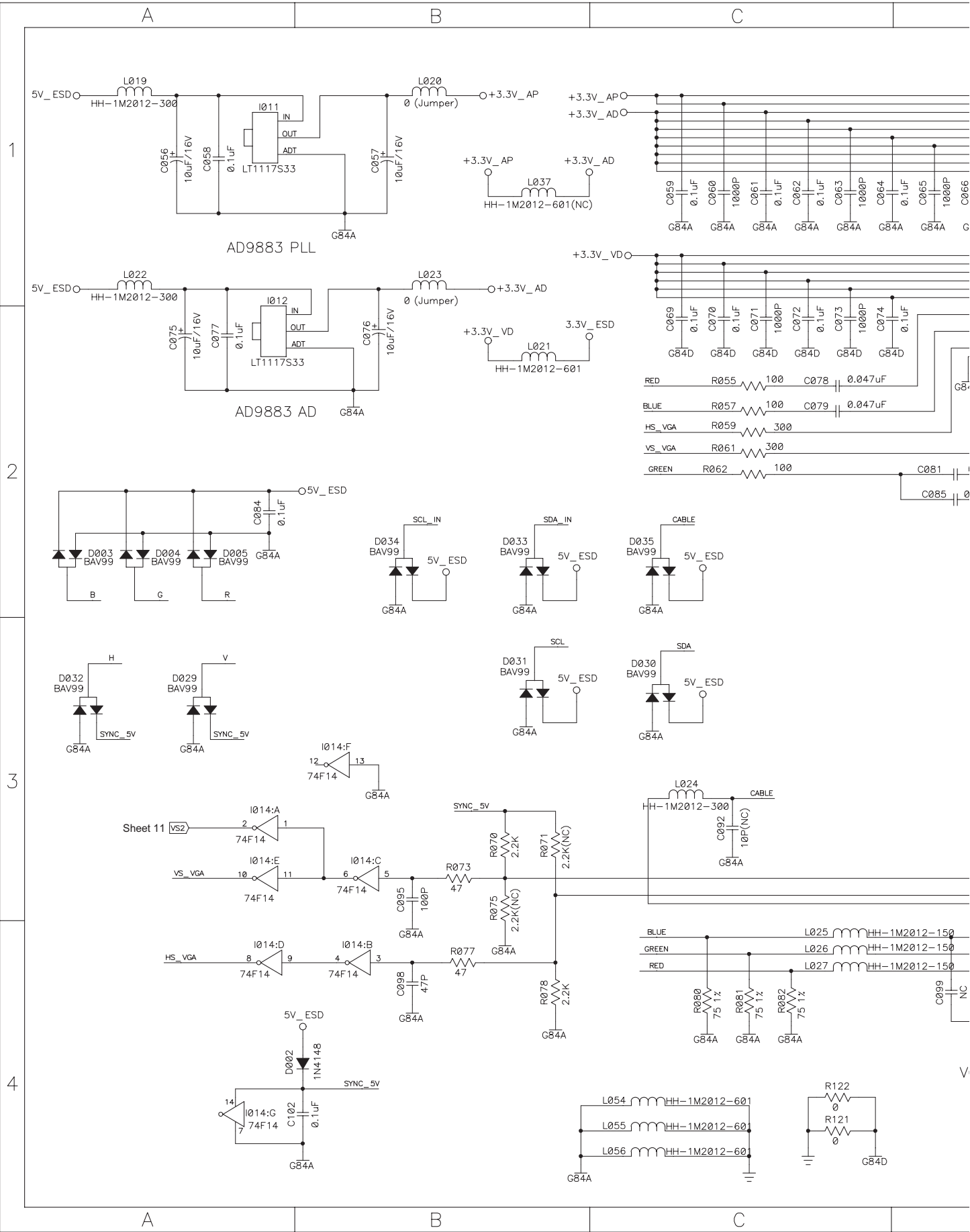


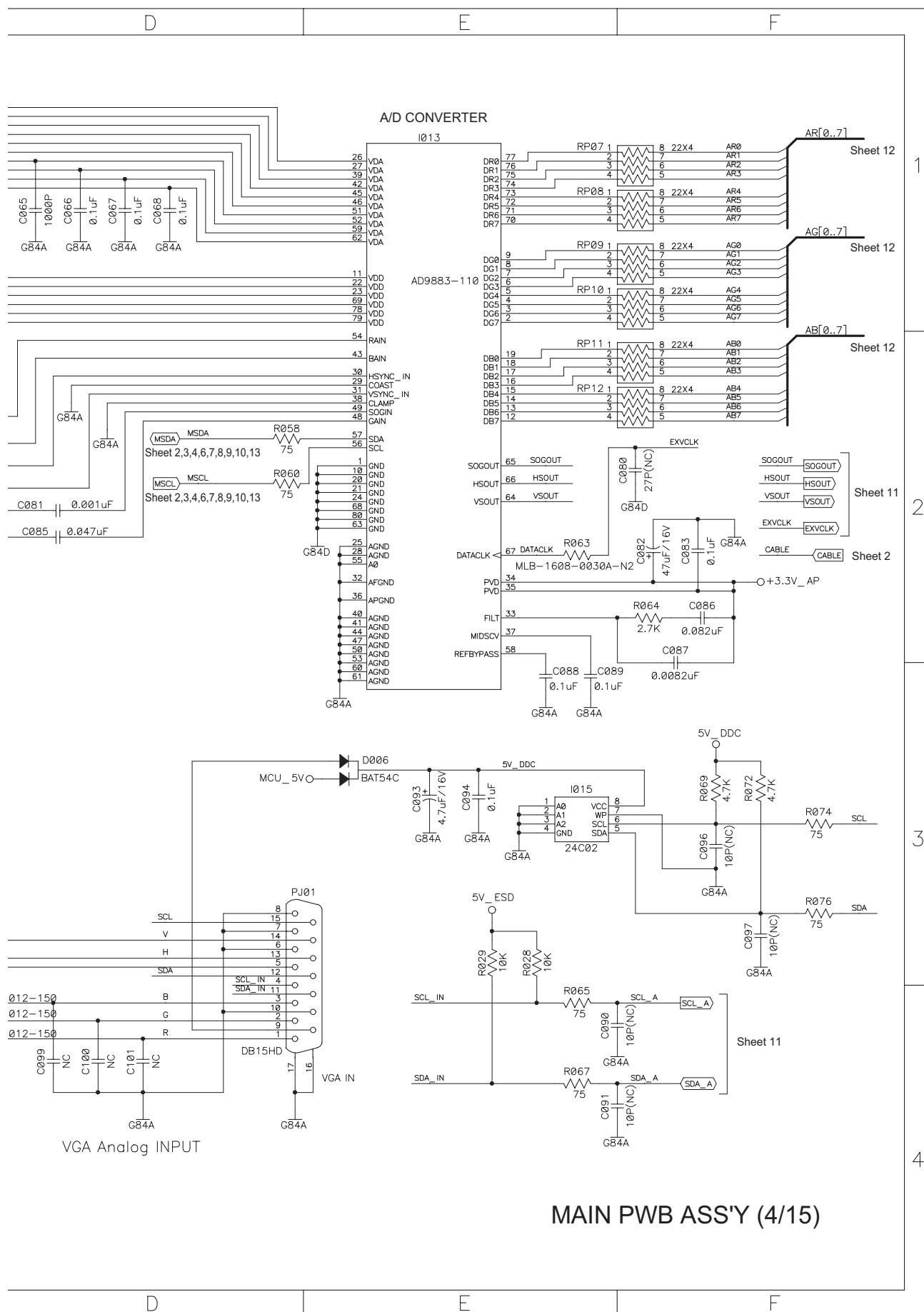


The schematic diagram illustrates the electrical connections for the TUNER PWB P012. Key components and connections include:

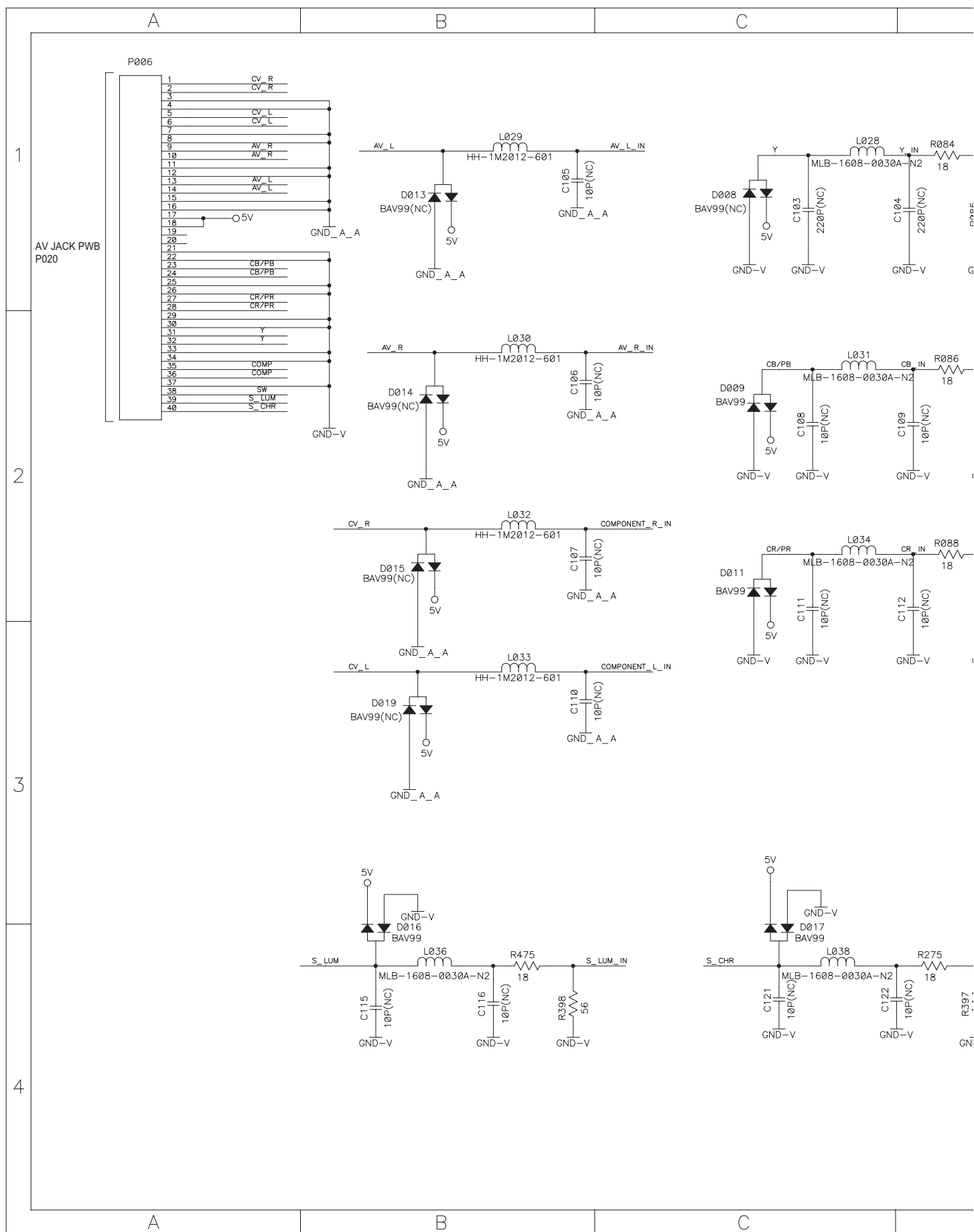
- Power and Grounding:** A 5V supply is connected to pin 1 of P001. Grounding points are labeled GNDTi_B and GNDTi_B.
- Inductors and Capacitors:** Inductor L115 (MLB-1608-0030A-N2) is connected between pins 1 and 2 of P001. Capacitors C554 (10pF(NC)) and C555 (10pF(NC)) are connected to pins 1 and 2 of P001.
- Resistors:** Resistors R400 and R401 are connected to pins 1 and 2 of P014. Resistors R316 and R315 are connected to pins 1 and 2 of P018.
- Signal Lines:** Signal lines for MSDA, MSCL, and MPX_T are connected to pins 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30 of P001.
- Other Components:** A 2IF_T component is connected to pins 18, 19, and 20 of P001. A PASE & PIN 3P component is connected to pins 21, 22, and 23 of P001.

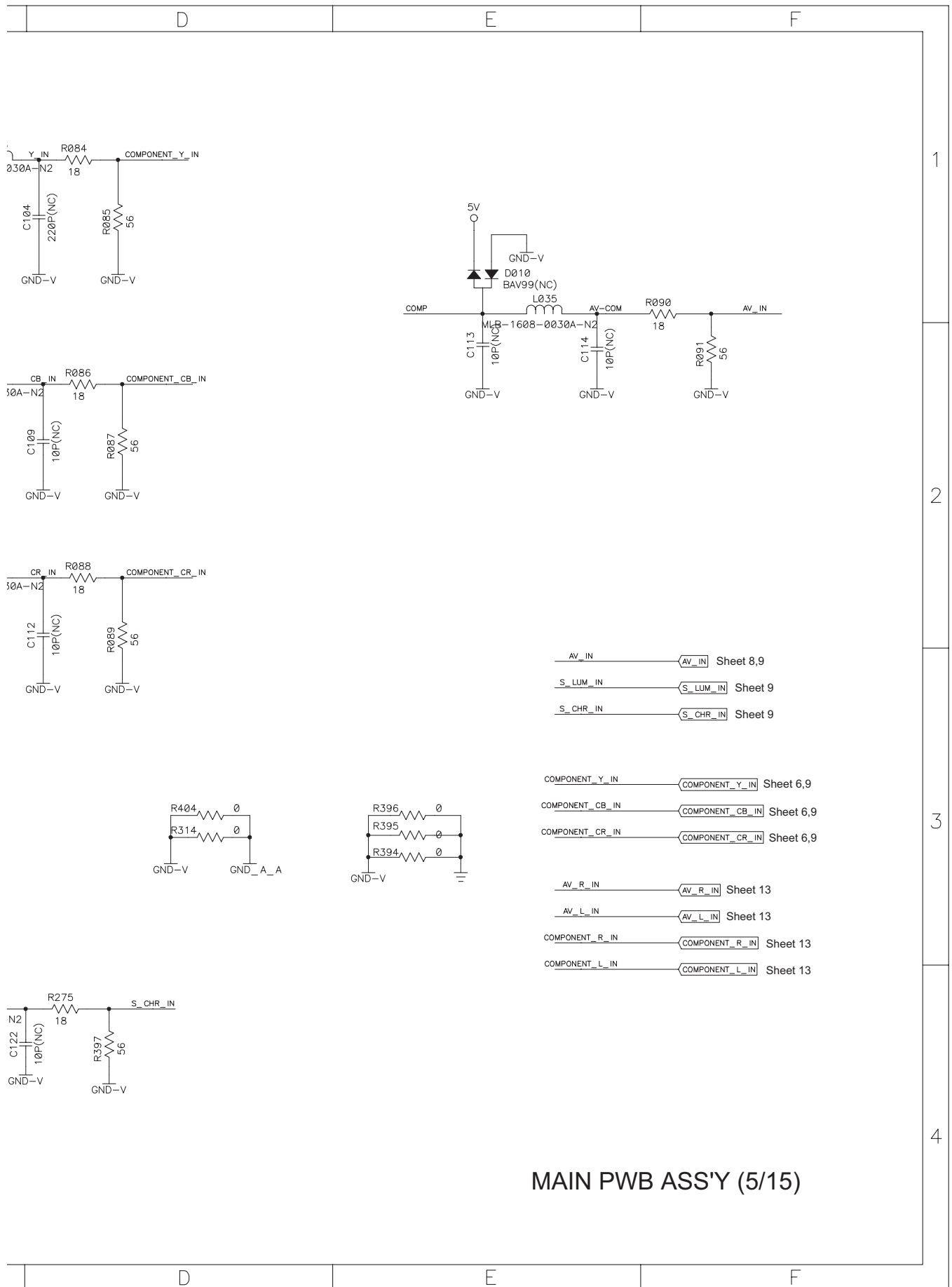


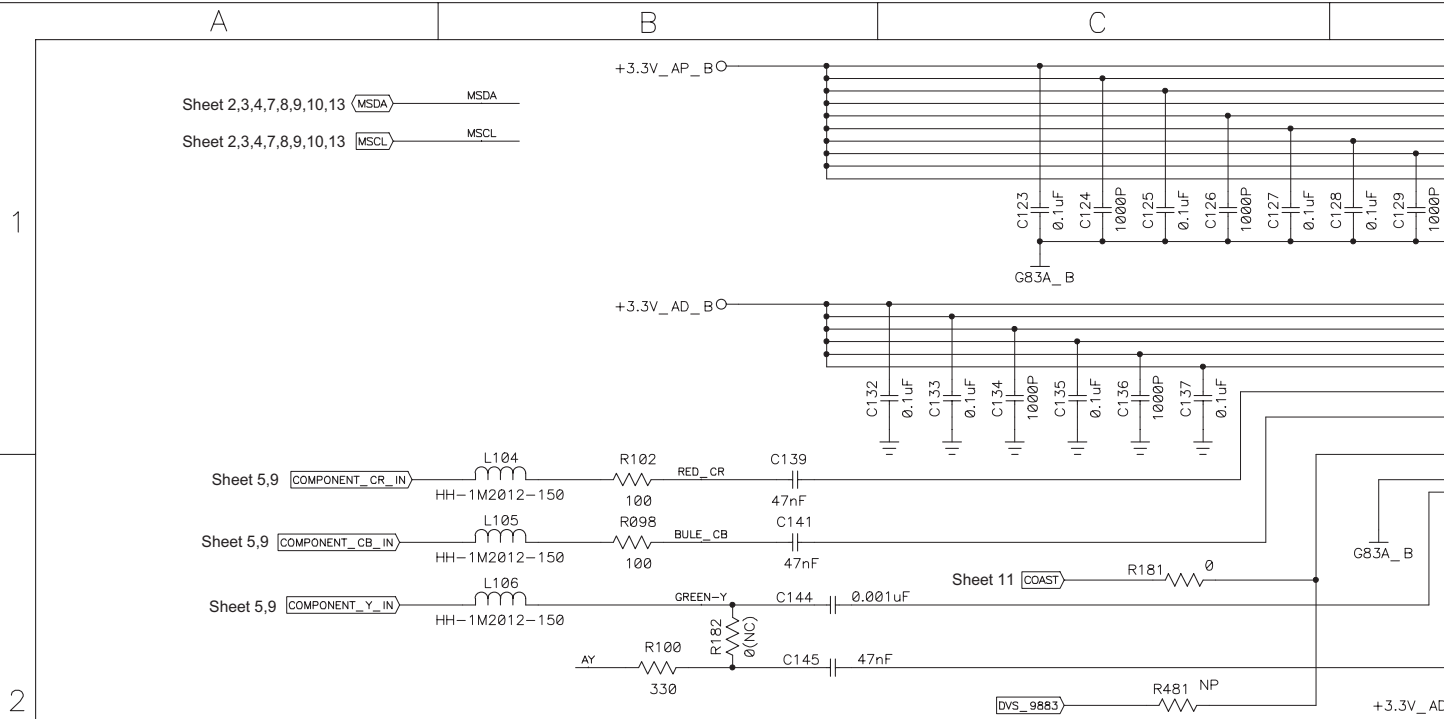




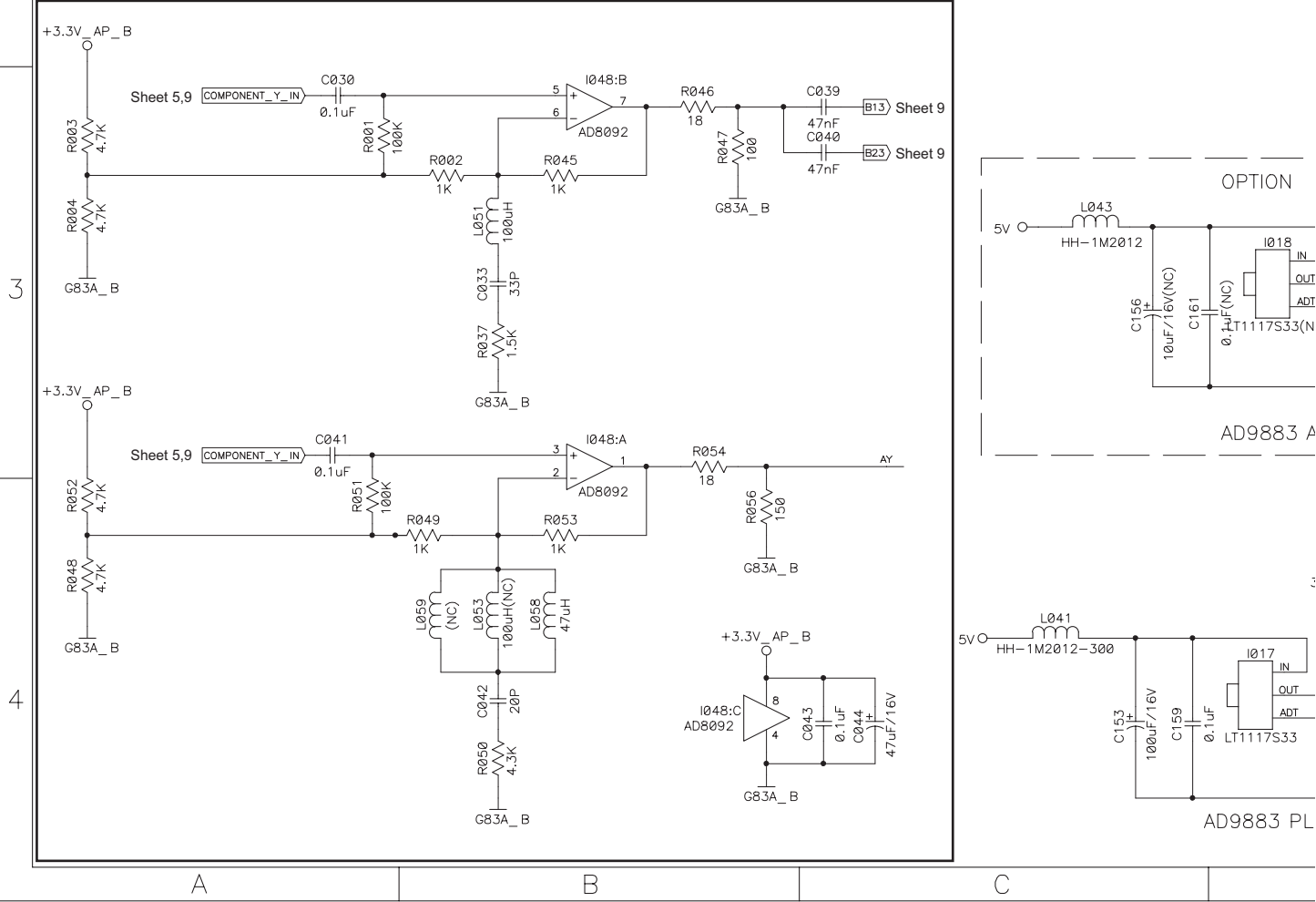
MAIN PWB CIRCUIT DIAGRAM (5/15)

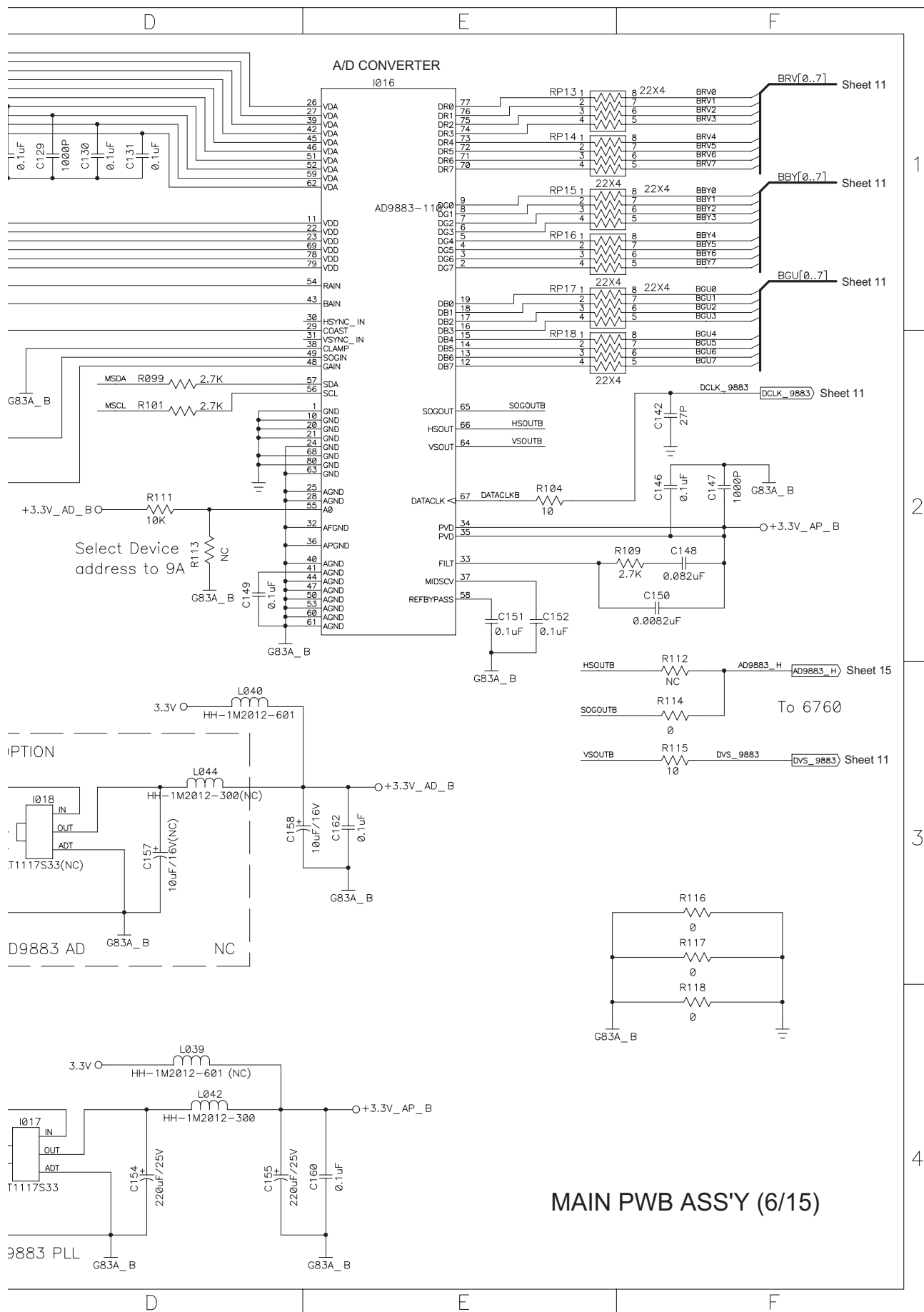






NOTE:
The circuit block in the bold line is included in the MAIN PWB circuit block.
The service parts of the MAIN PWB is available including this circuit block.





NOTE:
The circuit block in the bold line is included.
The service parts of the MAIN PWB is available.

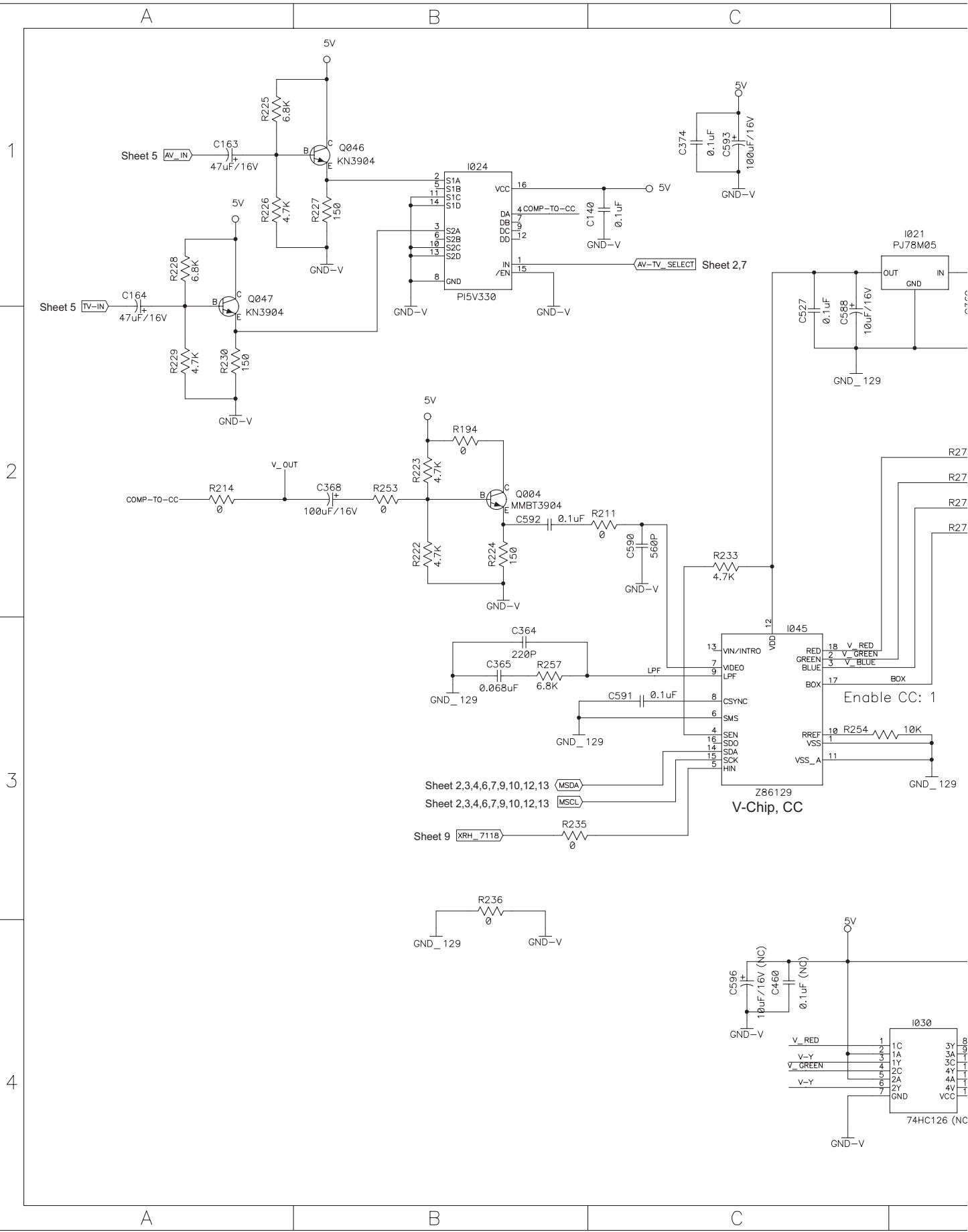
The circuit block in the bold line is included
The service parts of the MAIN PWB is available

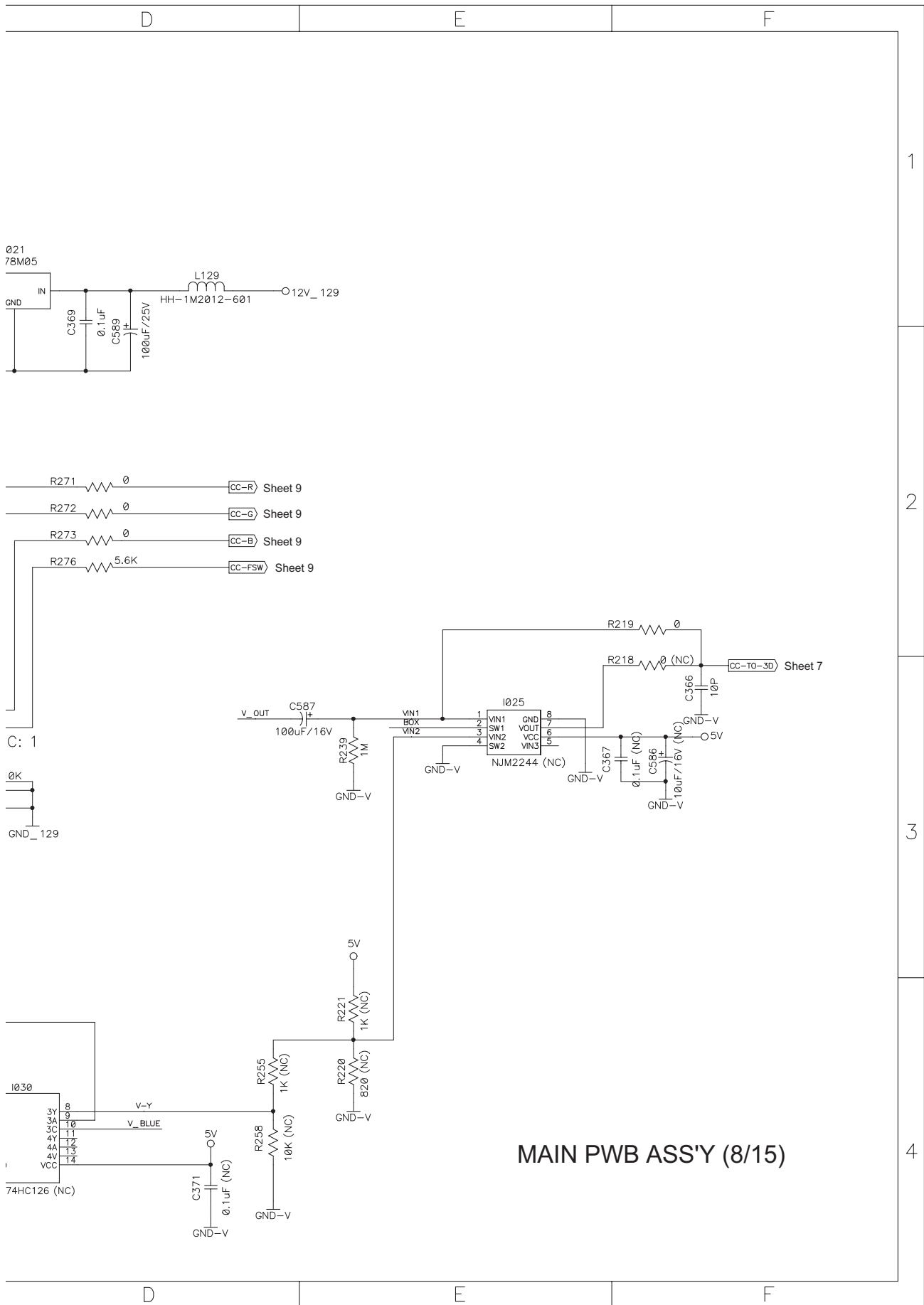
Y/C SEP.

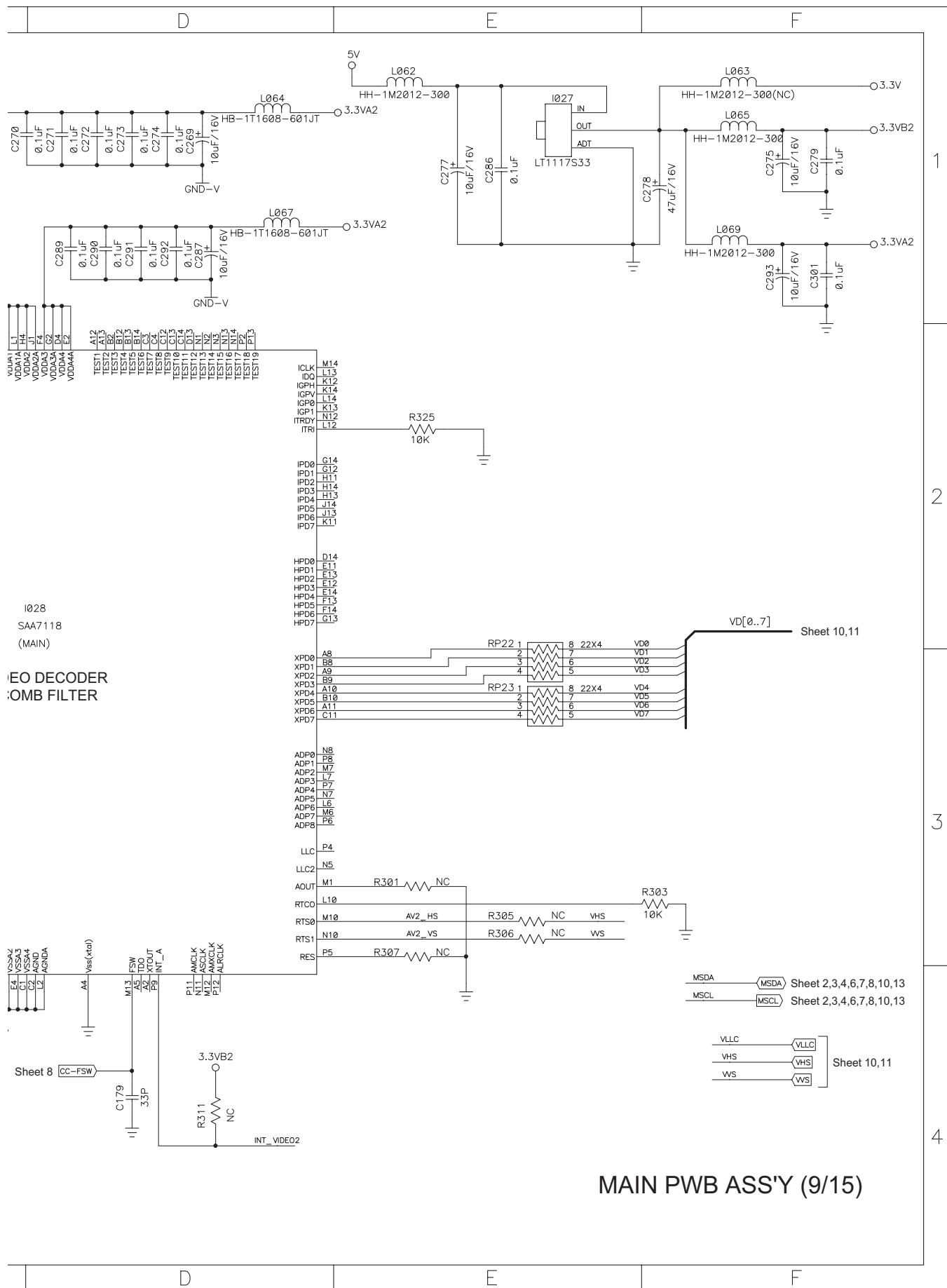
1044
TC90A65F

4



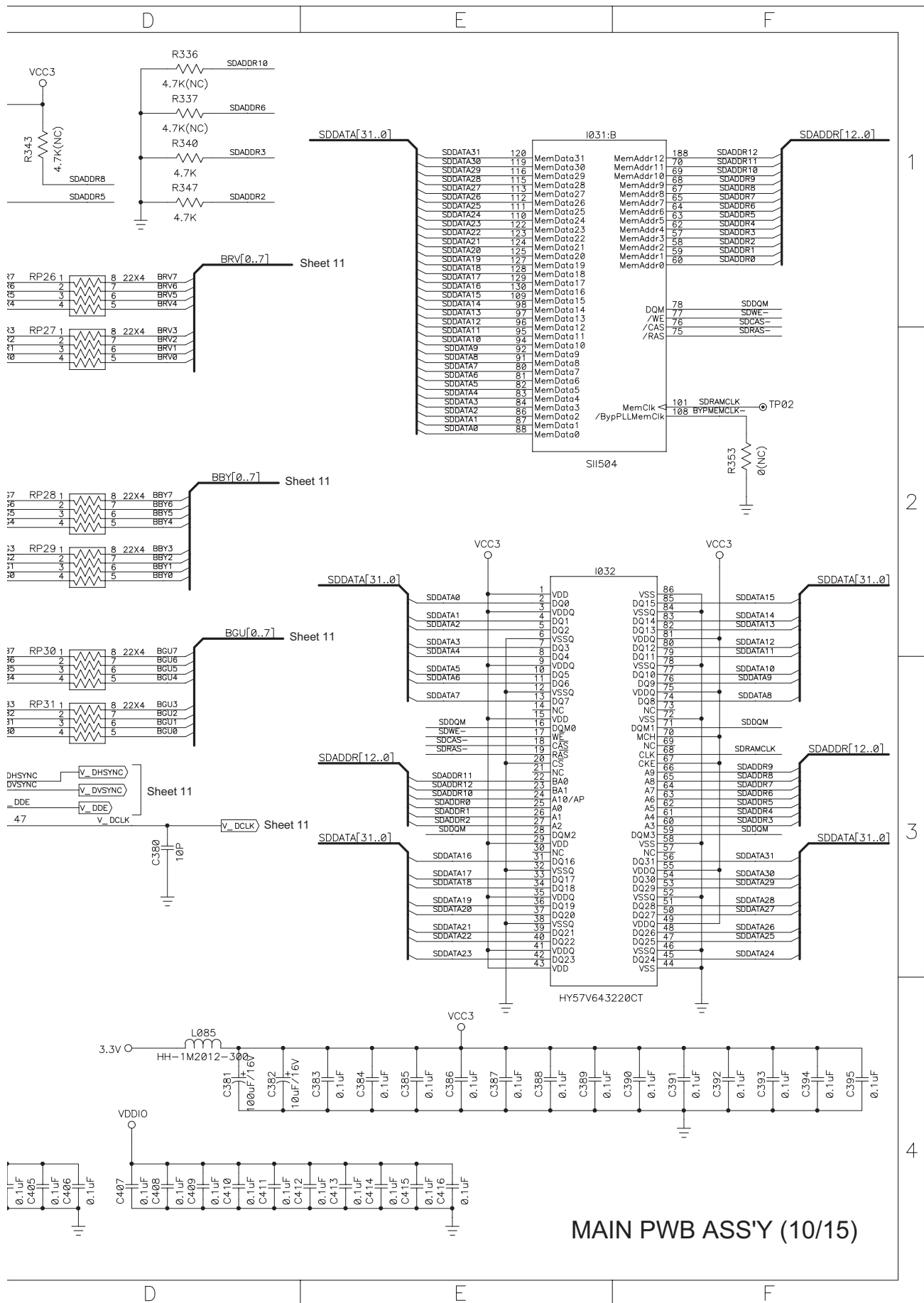




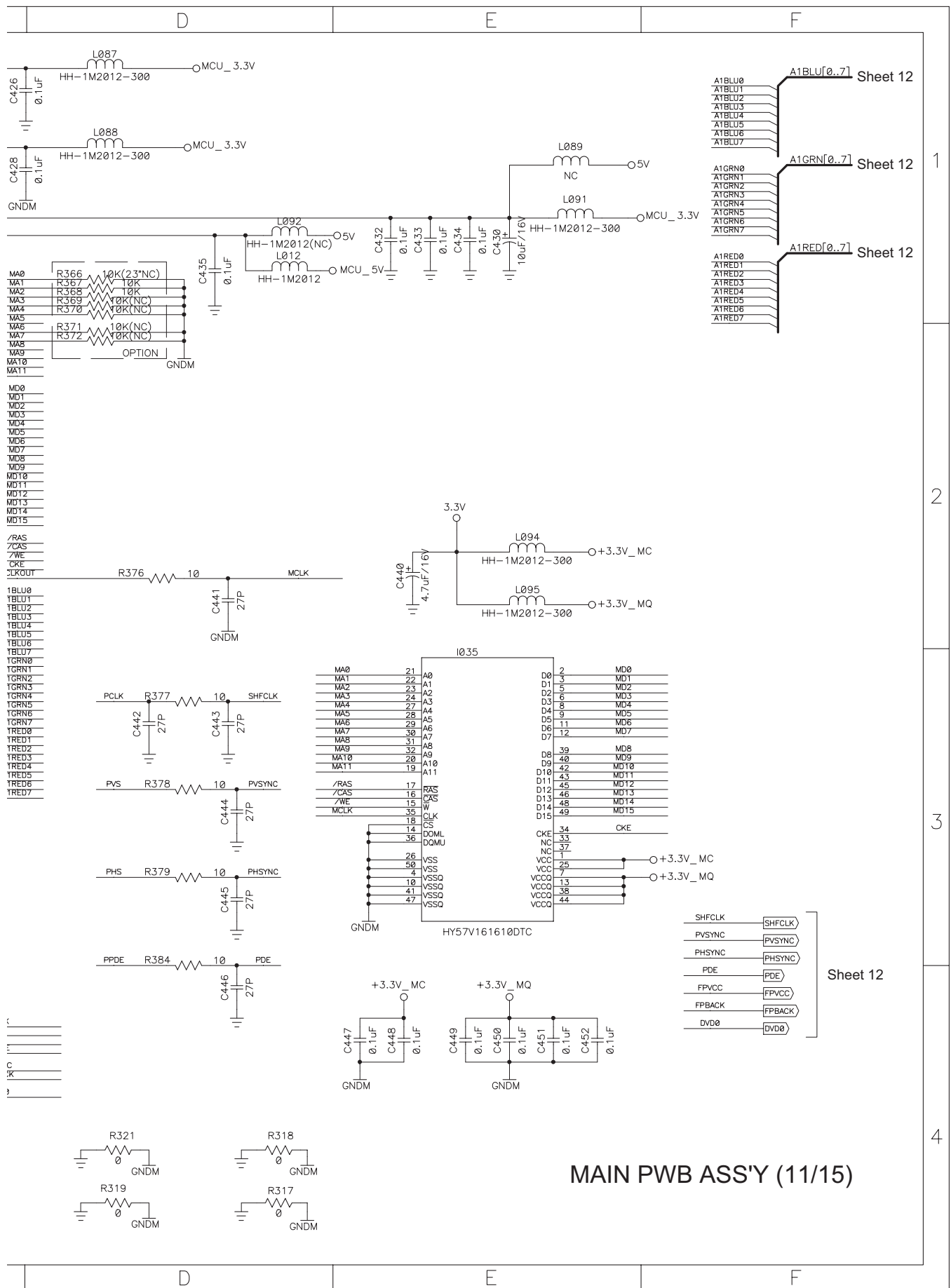


The image shows a complex PCB layout for a microcontroller-based system. The layout is organized into sections labeled A, B, and C. Key components and connections include:

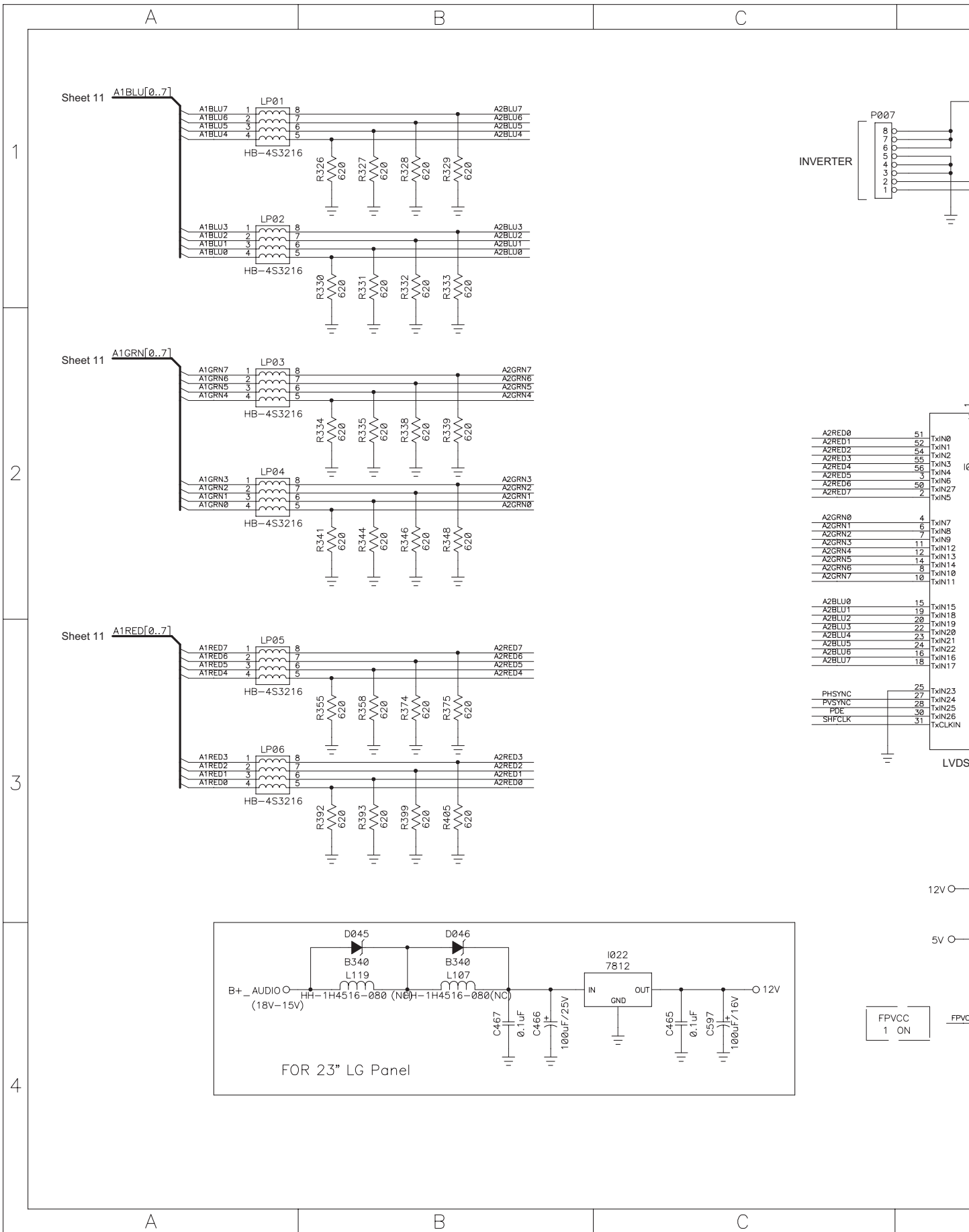
- Power Planes:** VDDCORE, VDDIO, VDD3, and AVDD1.
- Microcontroller:** 1031:A S11504.
- Connectors:** DR7, DR6, DR5, DR4, DR3, DR2, DR1, DR0, DG7, DG6, DG5, DG4, DG3, DG2, DG1, DG0, DB7, DB6, DB5, DB4, DB3, DB2, DB1, DB0.
- Components:** R351, R350, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406.
- Capacitors:** C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406.
- Inductors:** L081, L113.
- Resistors:** R351, R350, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406.
- Diodes:** D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93, D94, D95, D96, D97, D98, D99, D100.
- Other Components:** Q044, Q045, Q046, Q047, Q048, Q049, Q050, Q051, Q052, Q053, Q054, Q055, Q056, Q057, Q058, Q059, Q060, Q061, Q062, Q063, Q064, Q065, Q066, Q067, Q068, Q069, Q070, Q071, Q072, Q073, Q074, Q075, Q076, Q077, Q078, Q079, Q080, Q081, Q082, Q083, Q084, Q085, Q086, Q087, Q088, Q089, Q090, Q091, Q092, Q093, Q094, Q095, Q096, Q097, Q098, Q099, Q100.

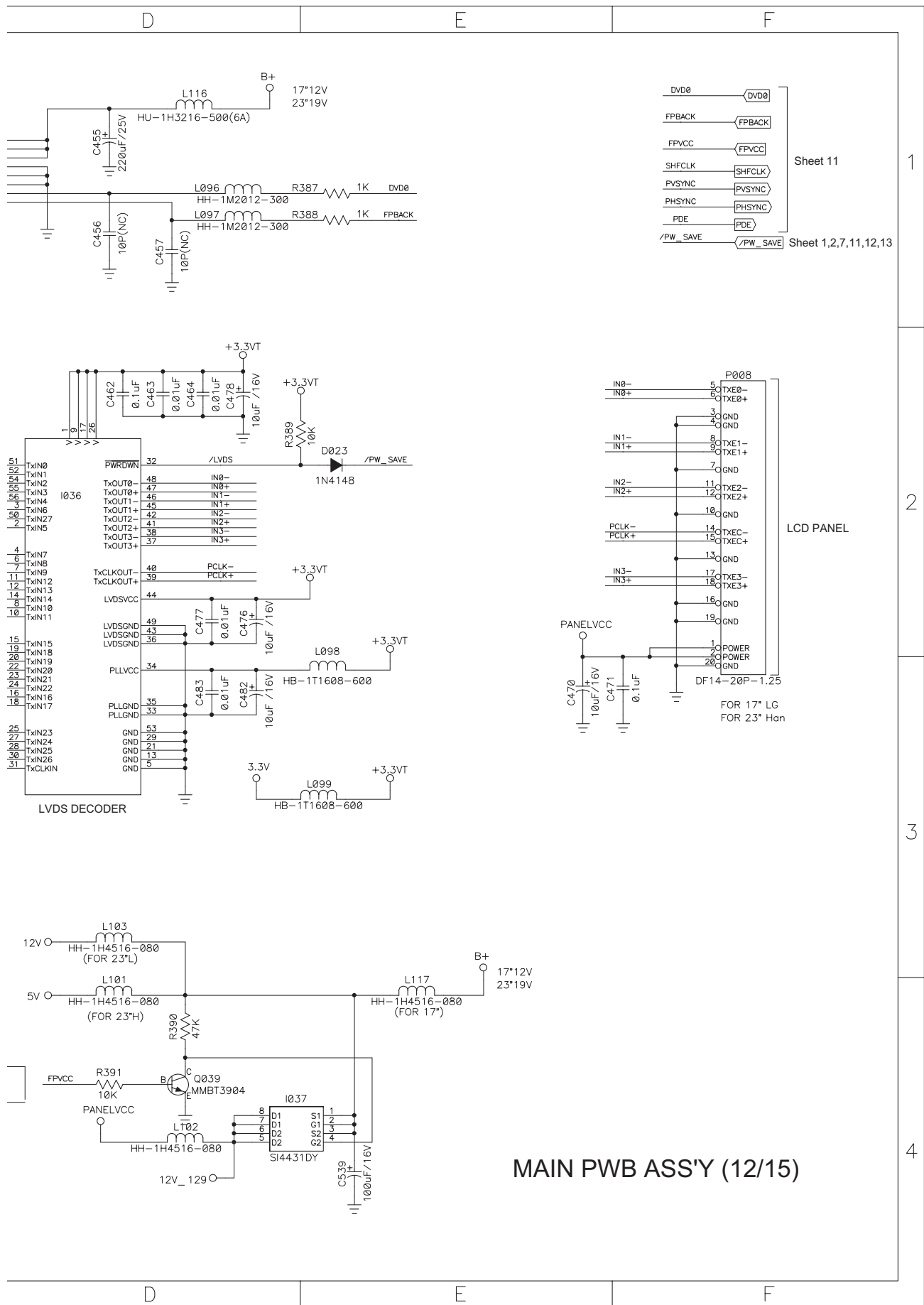


MAIN PWB ASS'Y (10/15)



MAIN PWB CIRCUIT DIAGRAM (12/15)





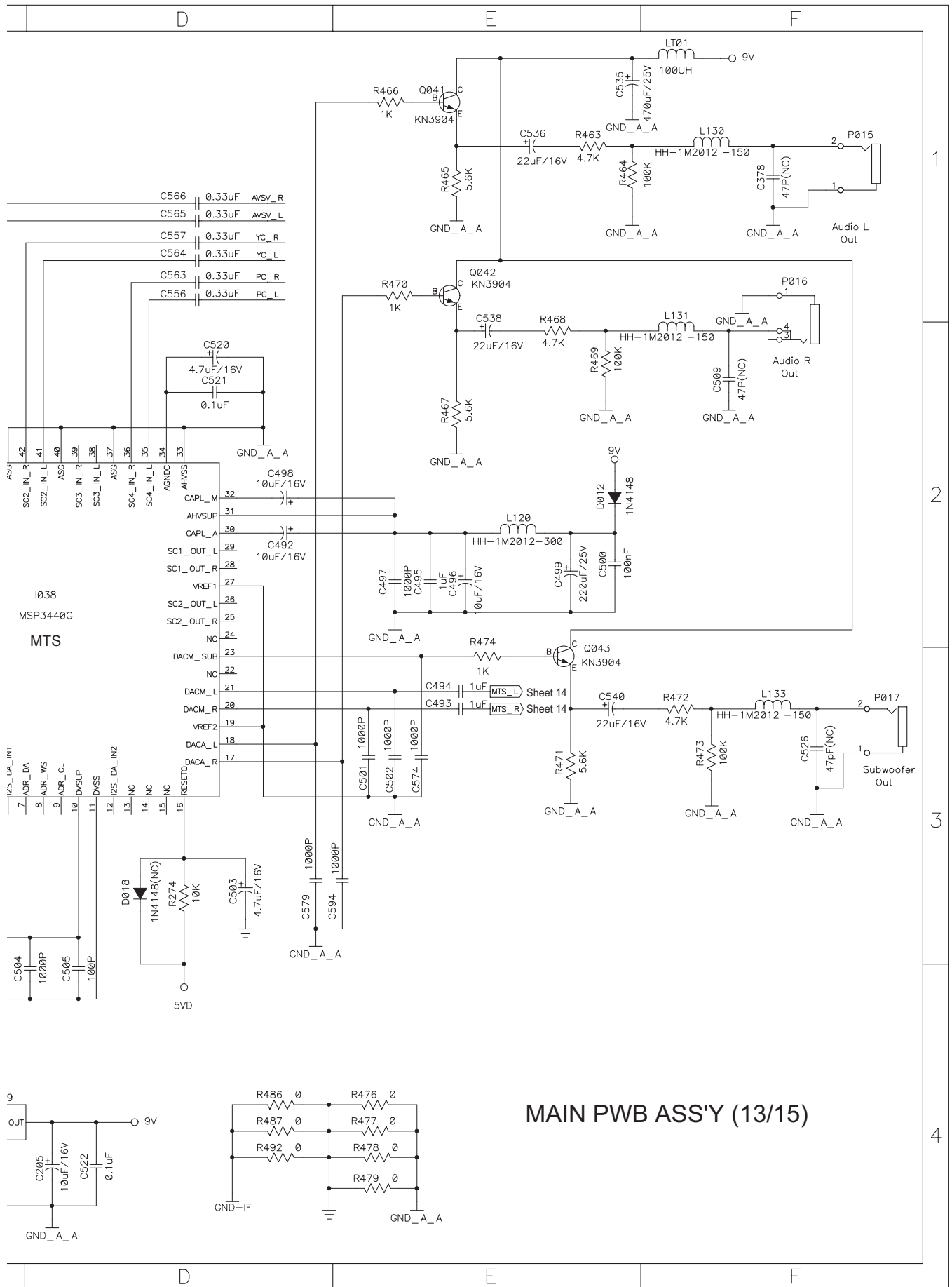
The image shows a detailed PCB layout for the MSP3440G MTS board. The layout is organized into four horizontal sections (1, 2, 3, 4) and three vertical sections (A, B, C). The components are labeled with their values and part numbers.

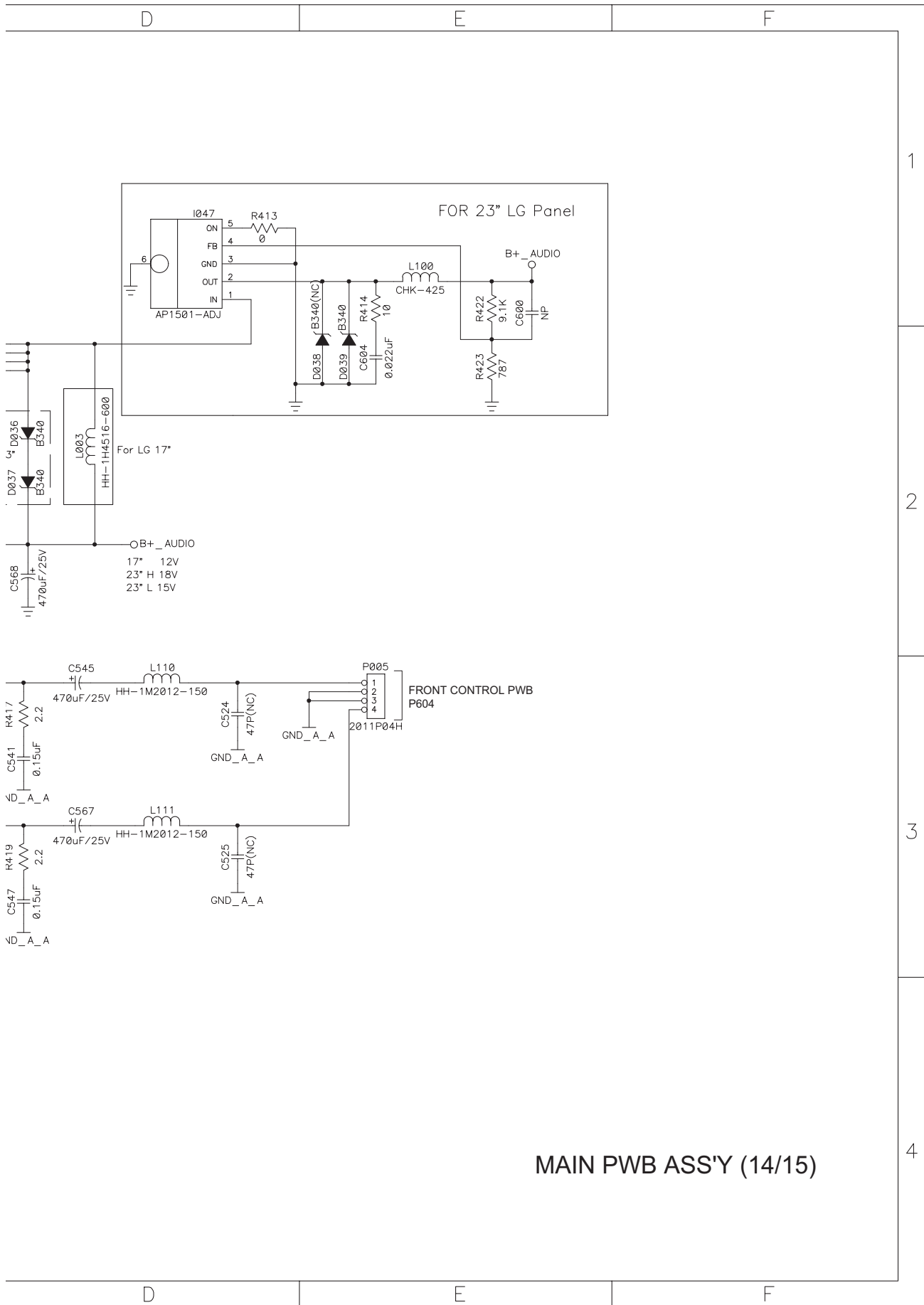
Pinout Table:

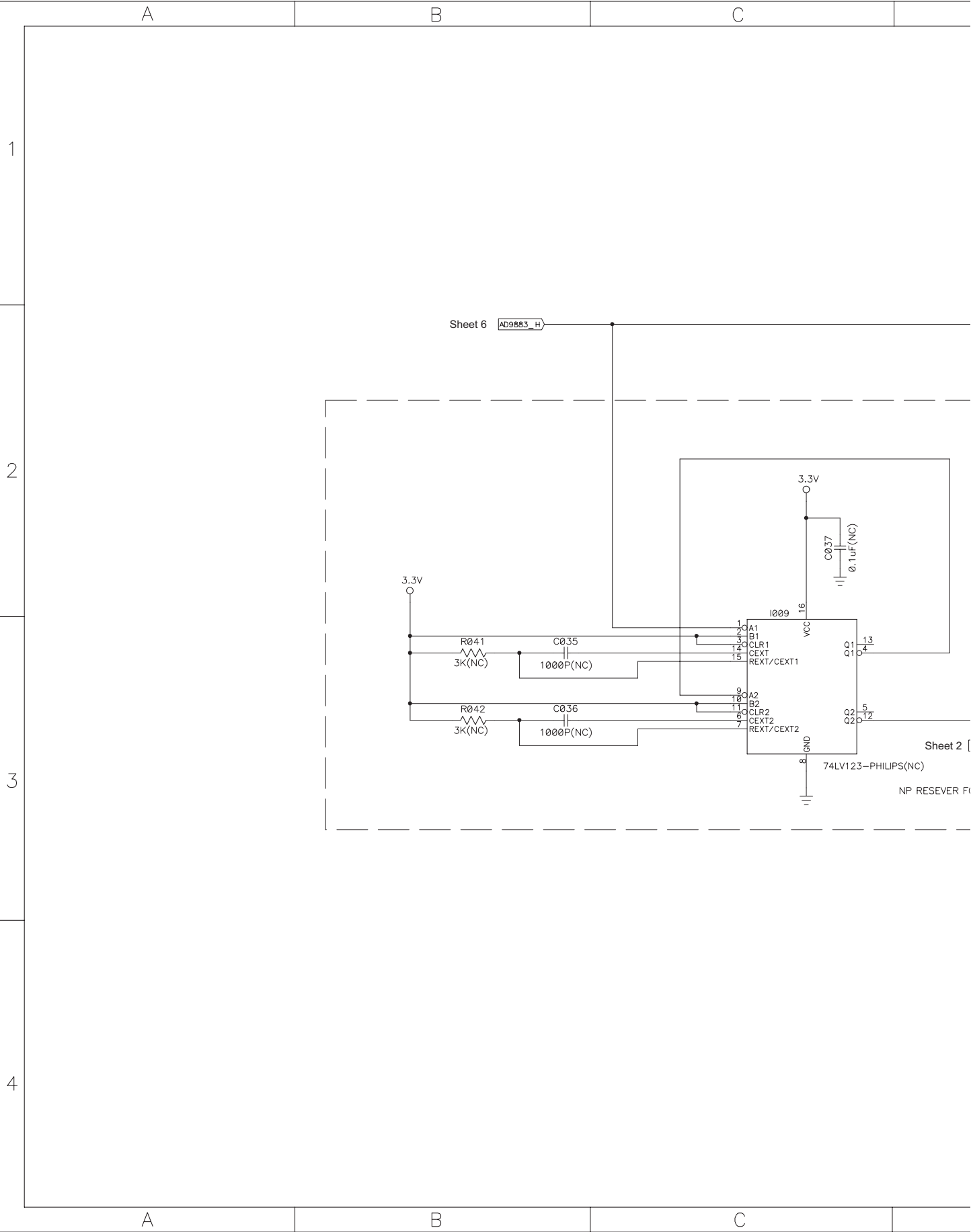
Pin	Signal
1	DC_CL
2	DC_DA
3	DS_WS
4	DS_WS
5	DS_DA_IN1
6	DS_DA_OUT
7	ADR_DA
8	ADR_WS
9	ADR_CL
10	DVSUP
11	DVS
12	NC
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC
23	NC
24	NC
25	NC
26	NC
27	NC
28	NC
29	NC
30	NC
31	NC
32	NC
33	NC
34	NC
35	NC
36	NC
37	NC
38	NC
39	NC
40	NC
41	NC
42	NC
43	NC
44	NC
45	NC
46	NC
47	NC
48	NC
49	NC
50	NC
51	NC
52	NC
53	NC
54	NC
55	NC
56	NC
57	NC
58	NC
59	NC
60	NC
61	NC
62	NC
63	NC
64	NC

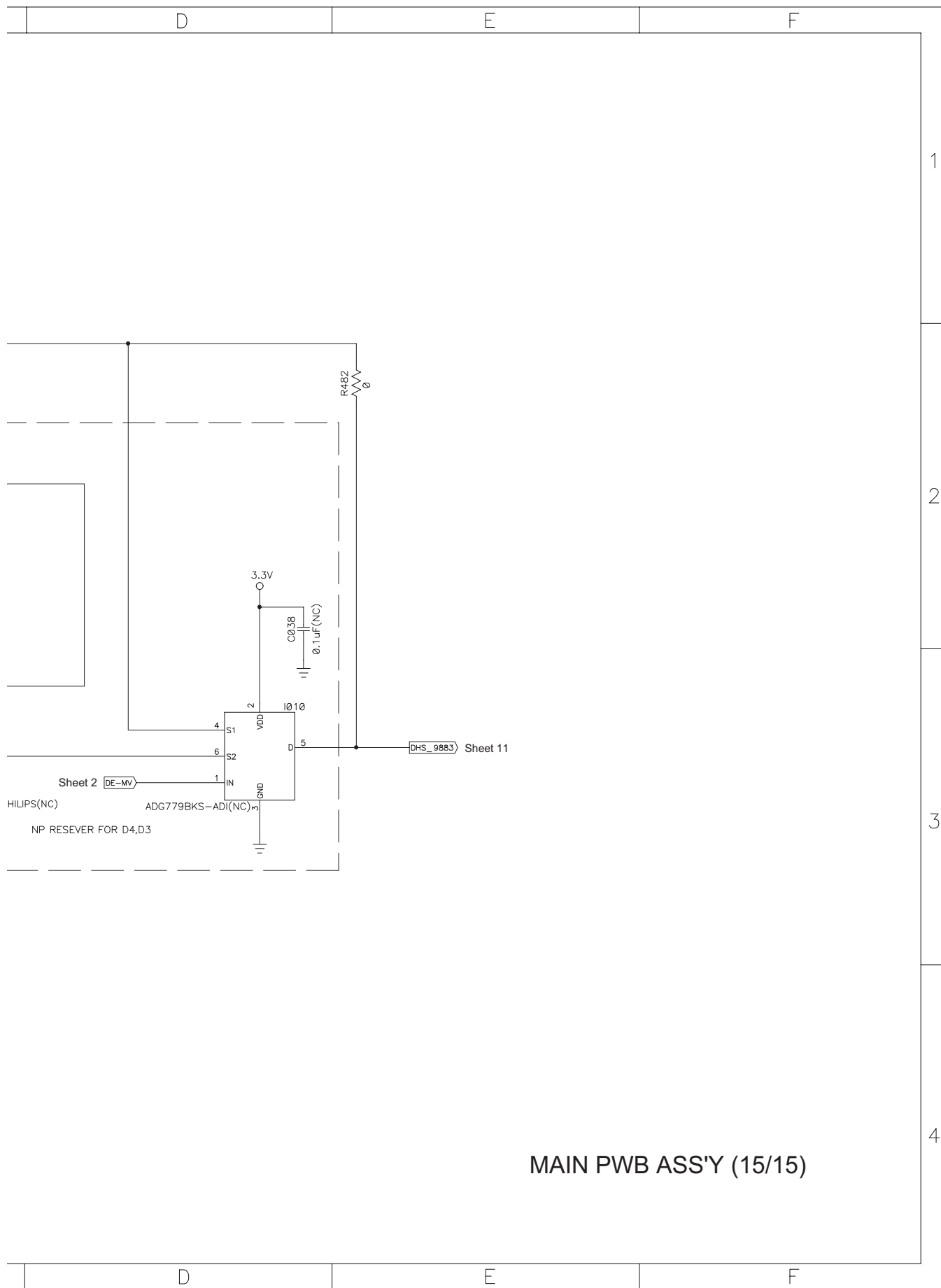
Component List:

- Resistors: R265, R264, R263, R267, R268, R269, R416, R420, R421, R418, R419, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R95

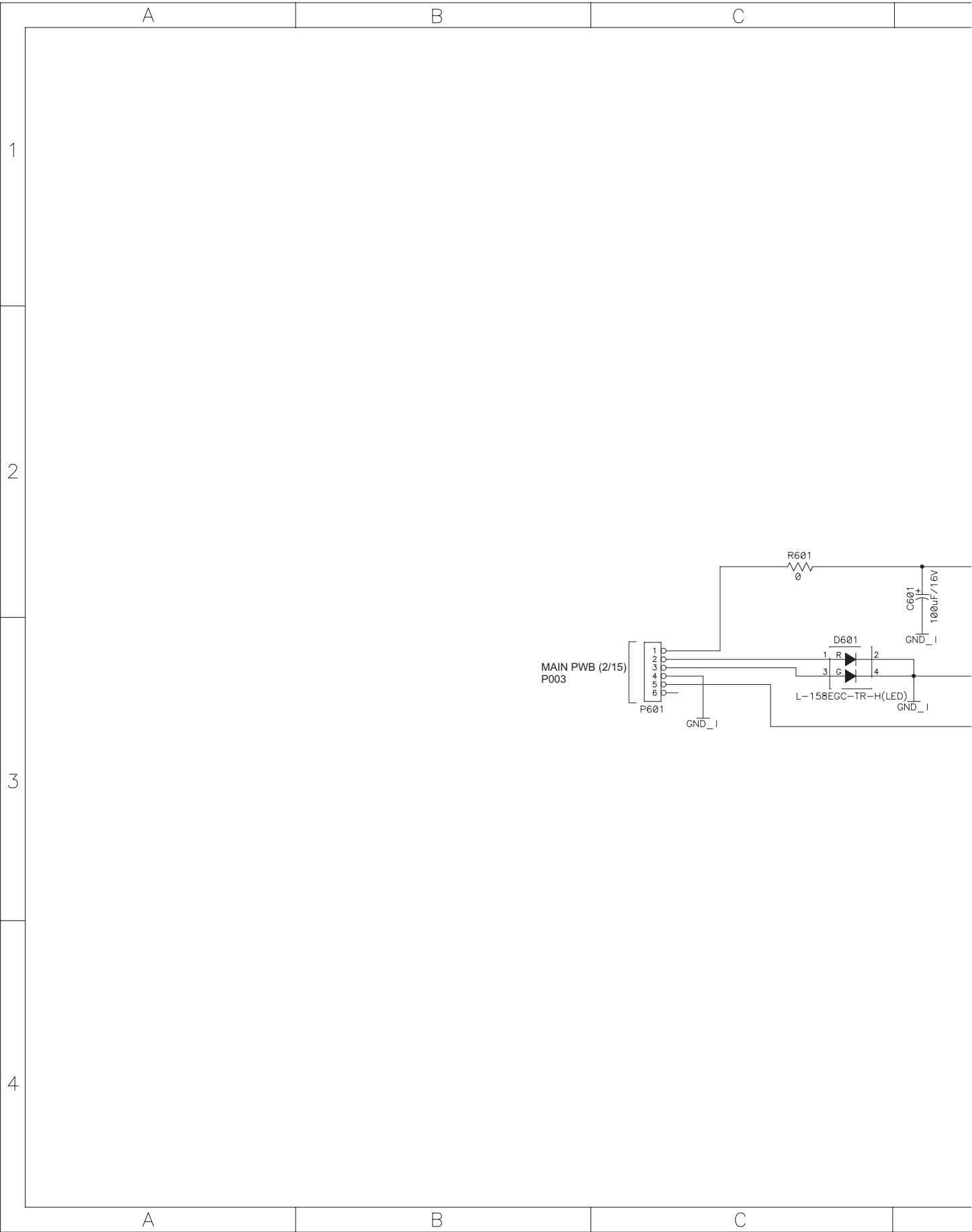


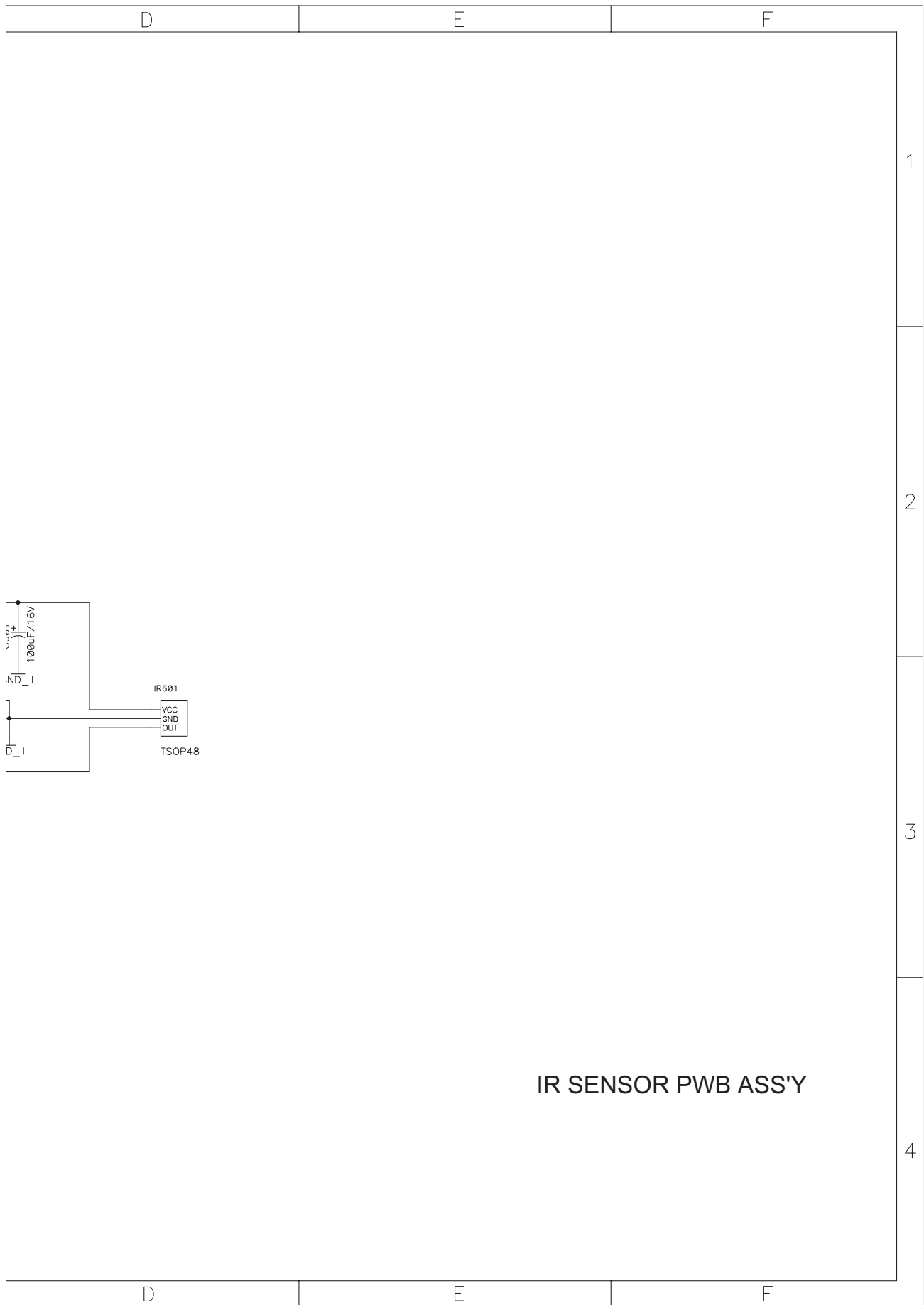




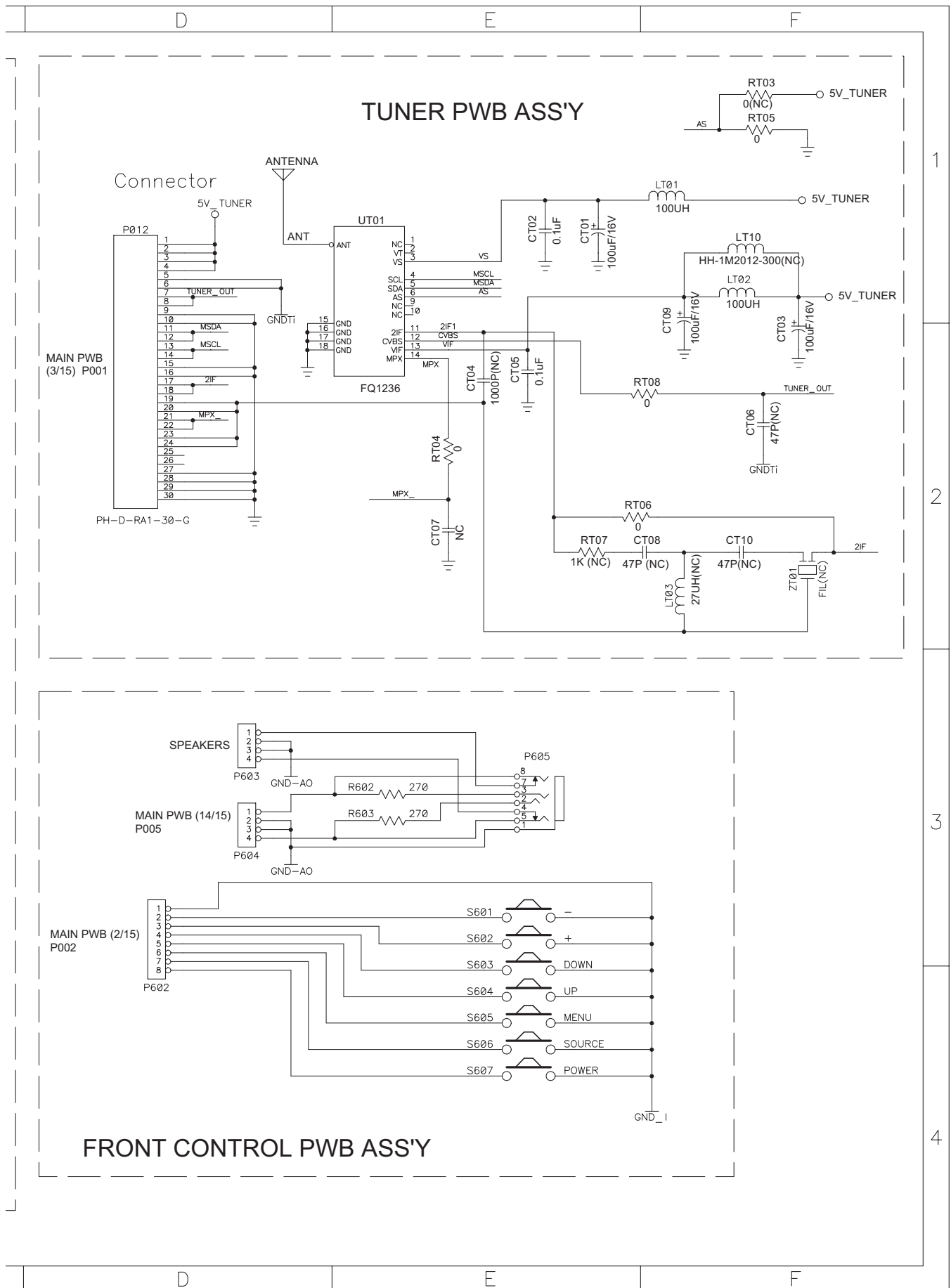


IR SENSOR PWB CIRCUIT DIAGRAM

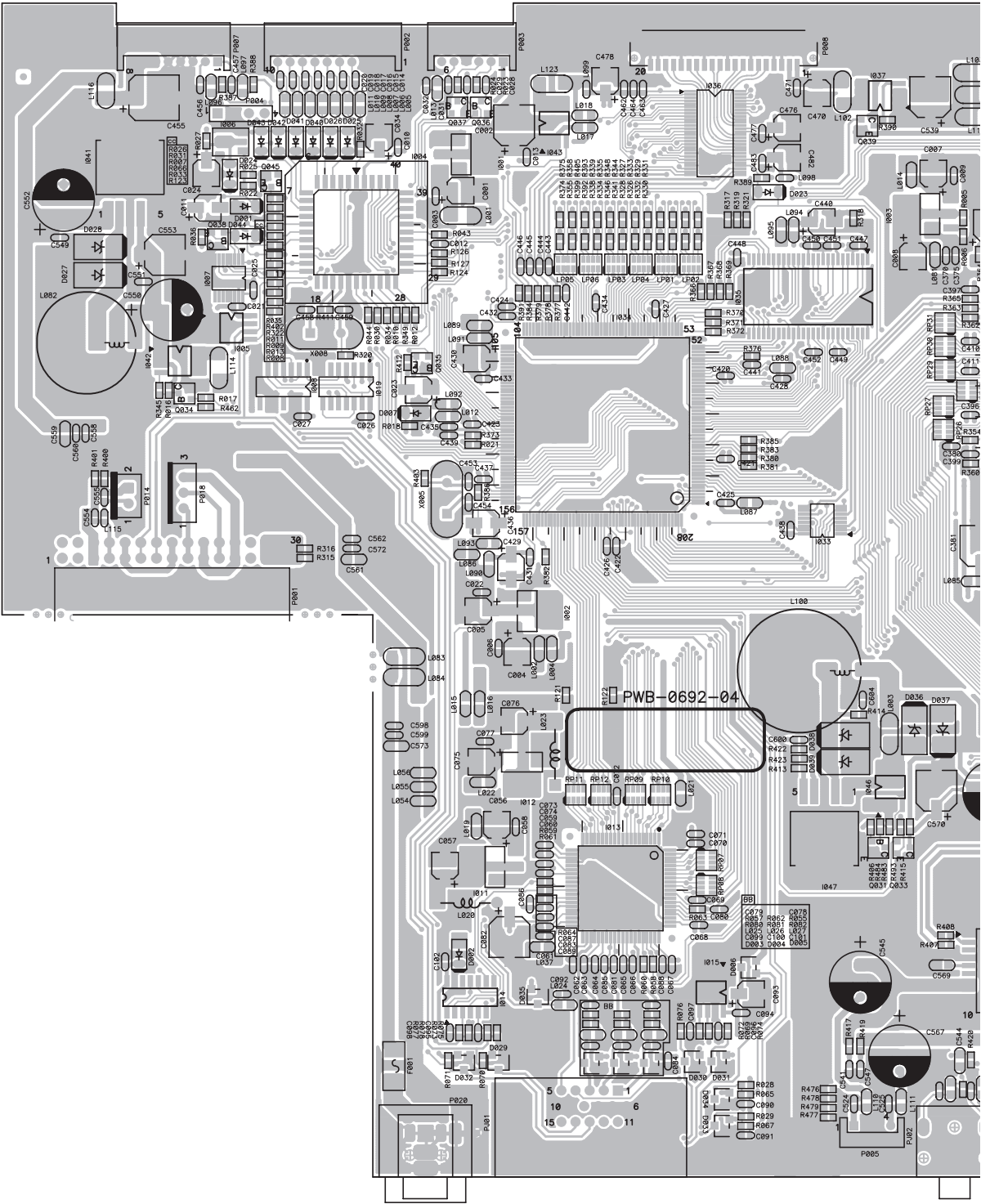


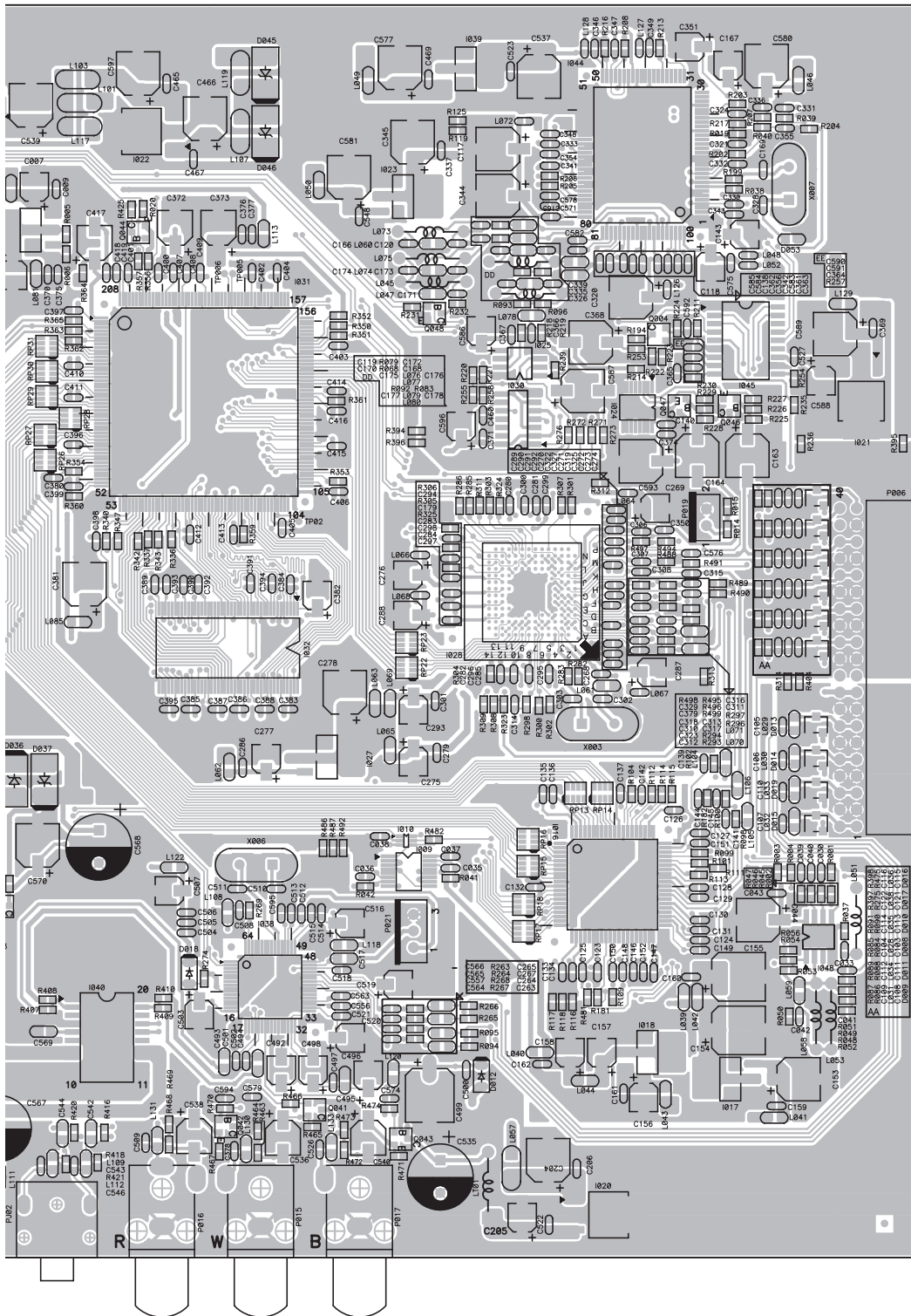


IR SENSOR PWB ASS'Y



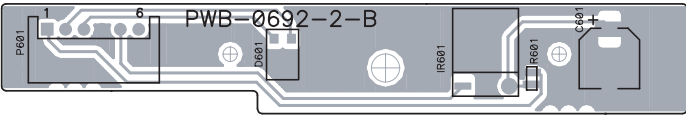
PATTERN DIAGRAMS
MAIN PWB PATTERN



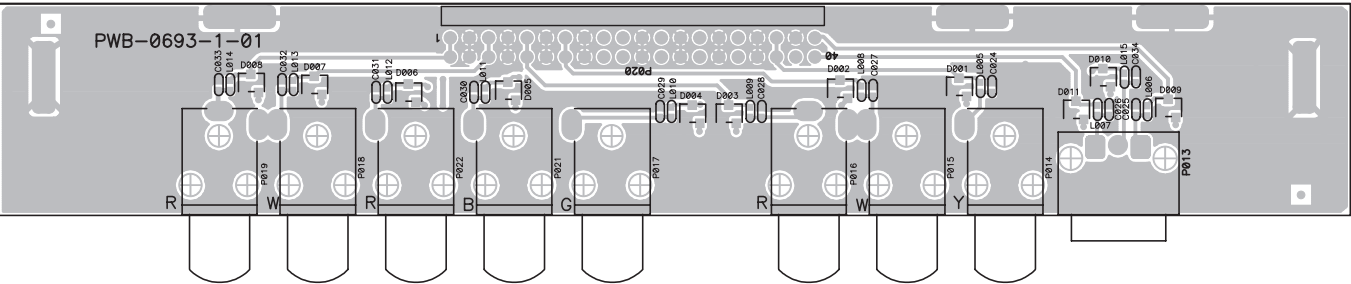


TOP
↑

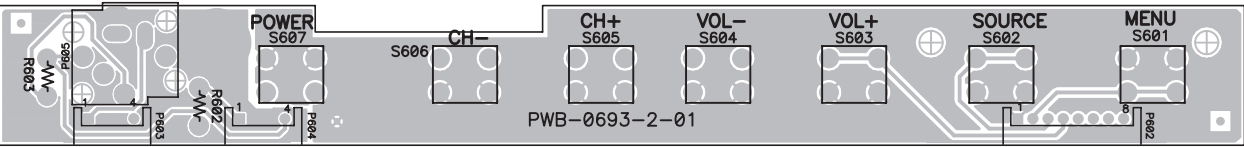
IR SENSOR PWB PATTERN



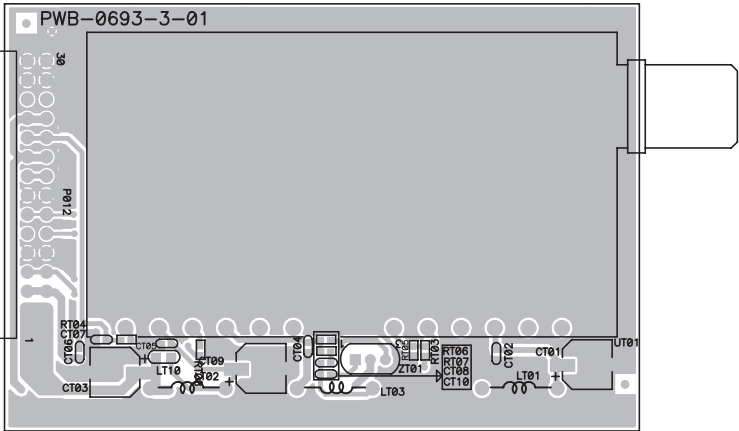
AV JACK PWB PATTERN



FRONT CONTROL PWB PATTERN



TUNER PWB PATTERN





Victor Company of Japan, Limited

AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No. YA036)



Printed in Japan
WPC